1. A certain distribution has the following statistics:

Median = 80

Mean = 120

Min = 40

Q1 = 62

Q3 = 100

Max = 140

1. What is the shape of the distribution? Why do you think this?
2. Because of this shape, which measure of center would you report (mean or median)?
3. Using your answer from part b, describe the distribution (shape, center, spread).
4. Using your answer from part b, pick an appropriate distribution to draw for the data and draw it below.
5. Are there any outliers in this data? Use the 1.5\* IQR test.
6. A set of data has the following distribution:

Mean = 39.2

Std. dev = 5.7

Min = 4.1

Max = 48.9

Median = 28

1. What is the shape of this distribution? Why do you think so?
2. Using your answer from part b, what measure of center would you report? Why?
3. Test for outliers using the mean and standard deviation
4. Identify the following variables as categorical or quantitative:
5. Gender
6. Shoe size
7. GPA
8. Brand of water bottle that you carry (deer park, aquafina, etc.)
9. Color of your car
10. Mileage on your car
11. # sports you play
12. What sports you play
13. Whether or not you are attending the football game